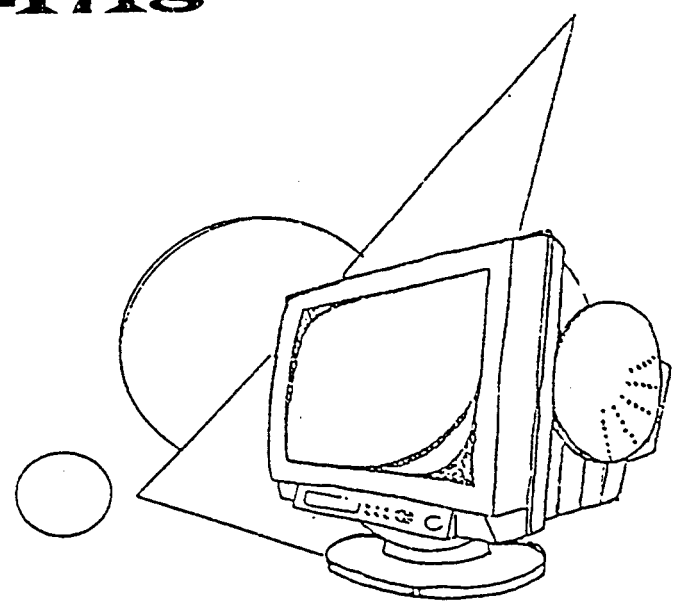
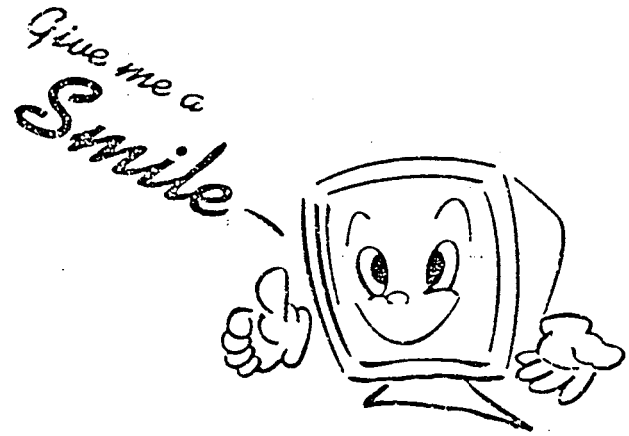
SMILE

GIVE ME A SMILE

Service Manual

CA-1717
CA-1718





SMILE TECHNOLOGIES GMBH
Otto-Brenner-StreBe 10 D-47877 Willich
Tel:490-2154-9280 Fax:490-2154-1032

SERVICE MANUAL
FOR
17" MULTI SCAN COLOR MONITOR
CA-1717/CA-1718

SCOPE: THIS IS A MULTI-SCAN MONITOR.
USE 17" CRT
CA-1717 IT IS A LED DISPLAY MONITOR.
CA-1718 IT IS A LCD DISPLAY MONITOR.

THE MICROPROCESSOR OF LED AND LCD, IT IS TO DISPLAY OR INDICATED OF HORIZONTAL AND VERTICAL FREQUENCY AND FUNCTION MESSAGE OF MONITOR SCREEN.

1.POWER INPUT: Ac power input range from 100 VAC to 240 VAC frequency range from 47 HZ to 63 HZ.

2.SIGNAL INPUT:
a) Horizontal input:TTL signal,input current should be >= 5mA frequency range from 31 KHZ to 64KHZ.

b) Vertical input:TTL signal input current should be >= 5mA frequency range from 50HZ to 90 HZ.

c) Video input:Input voltage 0.7 vpp R.G.B. output bandwidth 80 MHZ.

3.VOLTAGE OUTPUT:

a) D508 output voltage is 180 VDC
This is for voltage adjust and dc detector use.

b) D504 output voltage is 90 VDC
This is to provide video part use.

c) D505 output voltage is 24 VDC
This is to provide vertical part use.

d) D506 output voltage is 19 VDC
This is to provide Hi-Voltage contral circuit and op-amp use.

e) D507 output voltage is 7 VDC
This is to provide CRT herater Logic Board and TTL IC use.

4. VR ADJUSTMENT:

a) VR 502(B+ADJ)
Use 31 KHZ 640x480 Cross-Hatch pattern to adjust voltage =180 + -0.3V

b) VR 102(Hv-Adj)
Use 31 KHZ 640x480 Cross-Hatch pattern to adjust voltage =62 + -0.3V

c) VR 201(F-V ADJ)
Use 35 KHZ 1024x768 Cross-Hatch pattern to adjust voltage =8.4 + - 0.2V

d) VR 301(HOLD)
Use 48KHZ 1024x768 Cross-Hatch pattern to adjust Horizontal hold.
(* When you adjust VR301 at the same time positive of D203 should be grand)

e) VR 101 (H-CENTER)
Use 48 KHZ 1024x768 Cross-Hatch pattern to adjust Horizontal screen at center.

f) VR 305 (V-LINEARITY)
Use 48 KHZ 1024x768 Cross-Hatch pattern to adjust Vertical linearity at best position.

g) VR 303 (H-SIZE)
Use 31 KHZ 640x350 Cross-Hatch pattern to adjust Horizontal size to meet specification.

h) VR 202(V-SIZE)

Use 48 KHZ 1024x768 Cross-Hatch pattern to adjust Vertical size to meet specification.

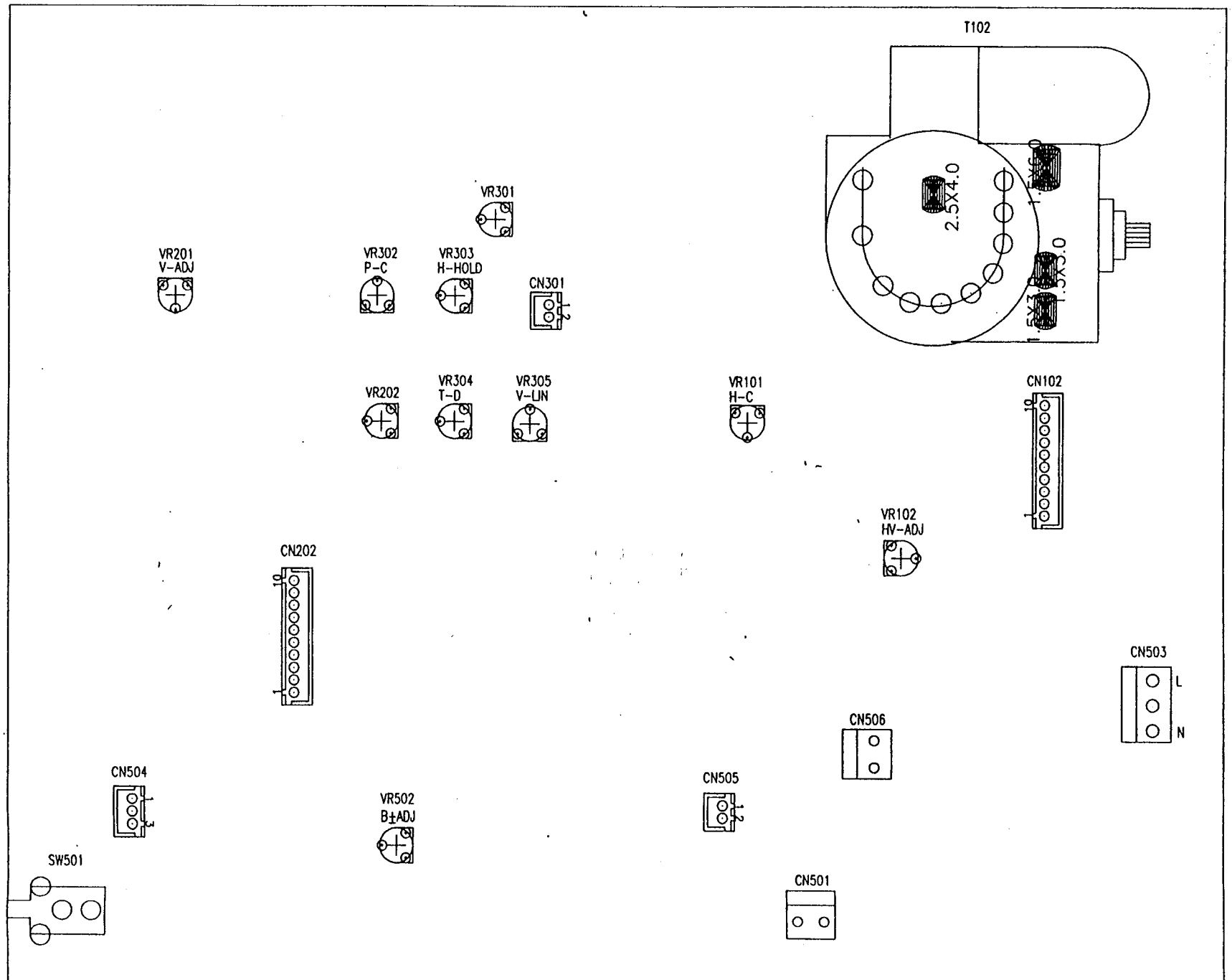
i) VR 302 (SIDE PIN)

Use 35 KHZ 1024x768 Cross-Hatch pattern to adjust side pin to straight line.

j) VR 304 (TRAPEZOID)

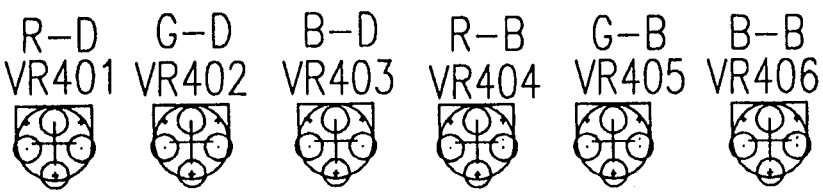
Use 35 KHZ 1024x768 Cross-Hatch pattern to adjust trapezoid at best visual.

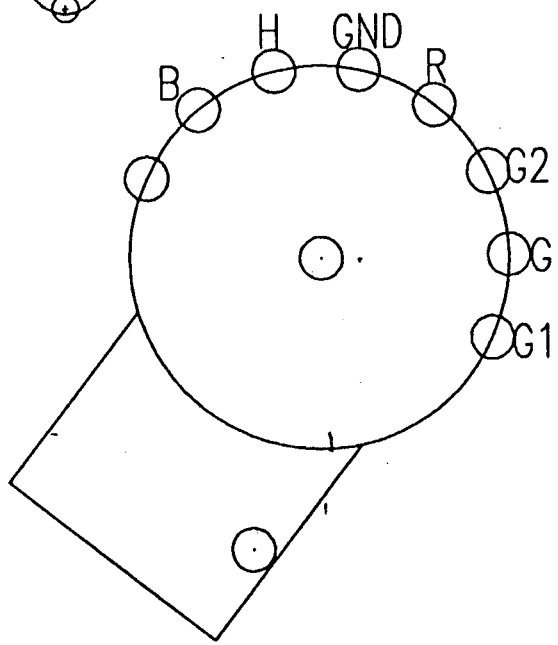
MAIN BD VR LOCATION



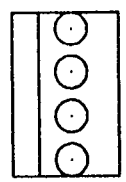
CA-1717.1718.1719.1710

CRT BOARD VR LOCATION

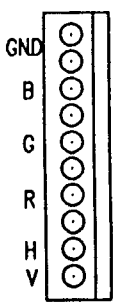




06-0182-041F



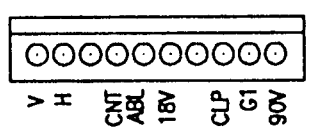
CN403



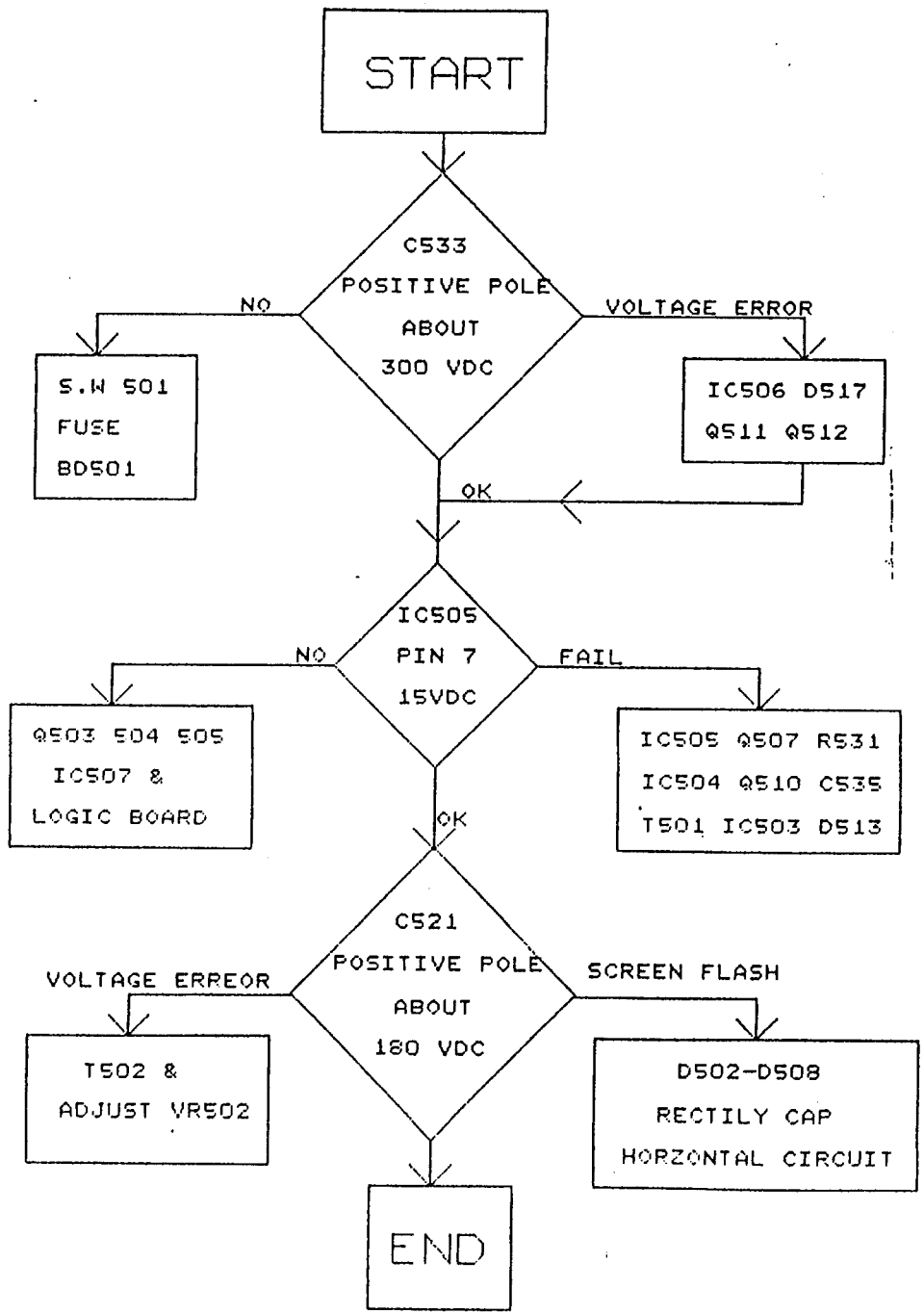
CN401

CN405

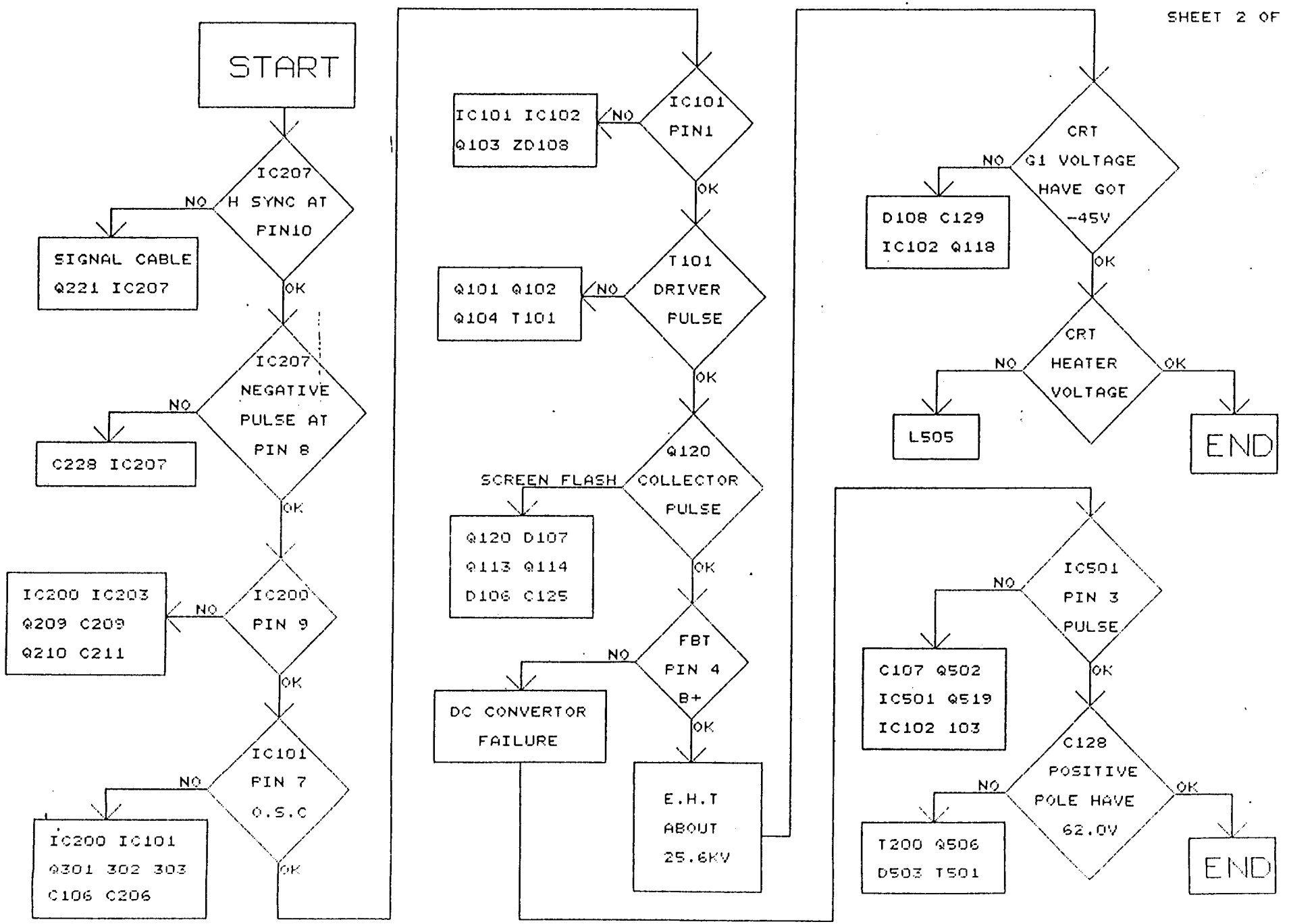
CN402



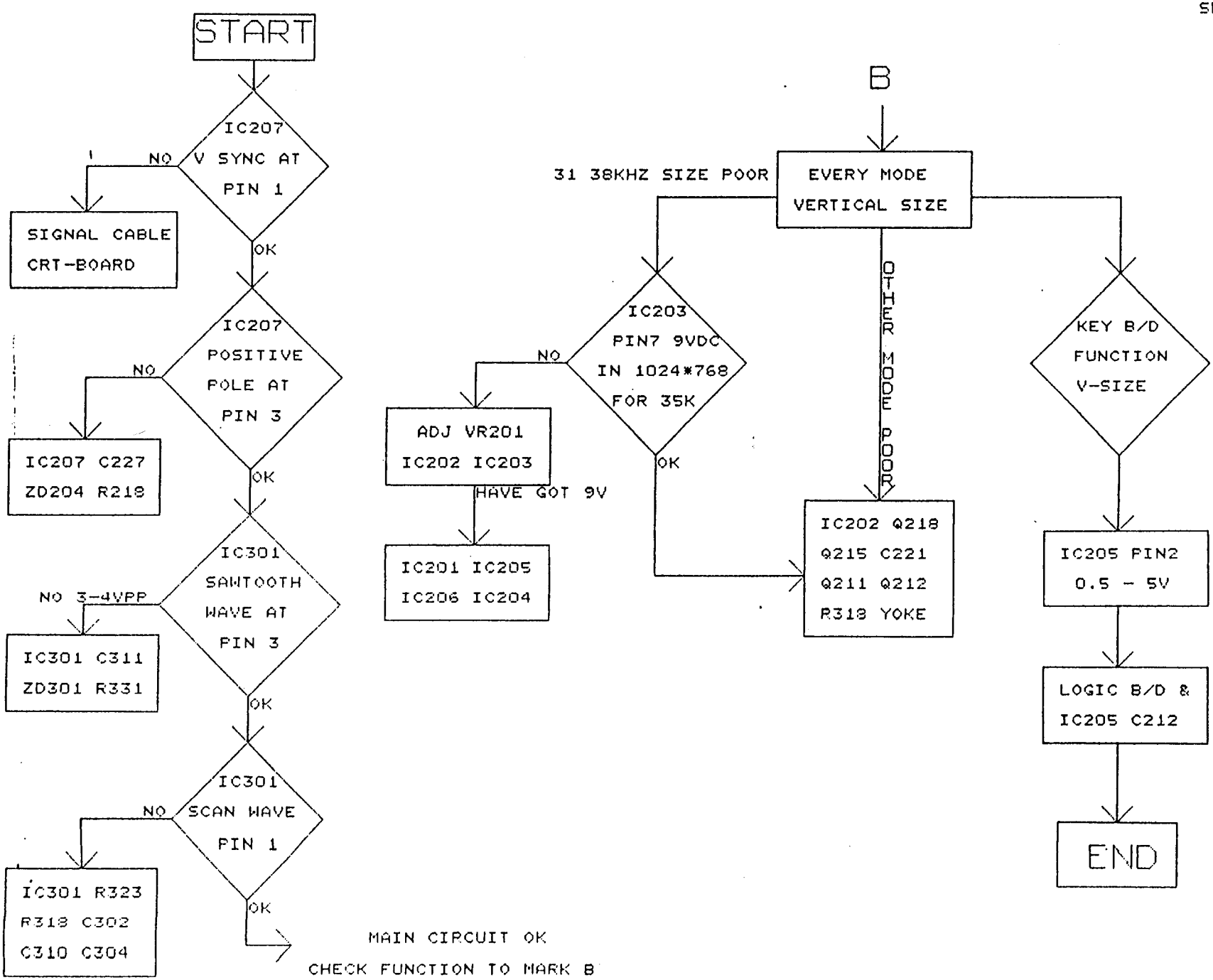
POWER SUPPLY TROUBLE SHOOTING FLOW CHART



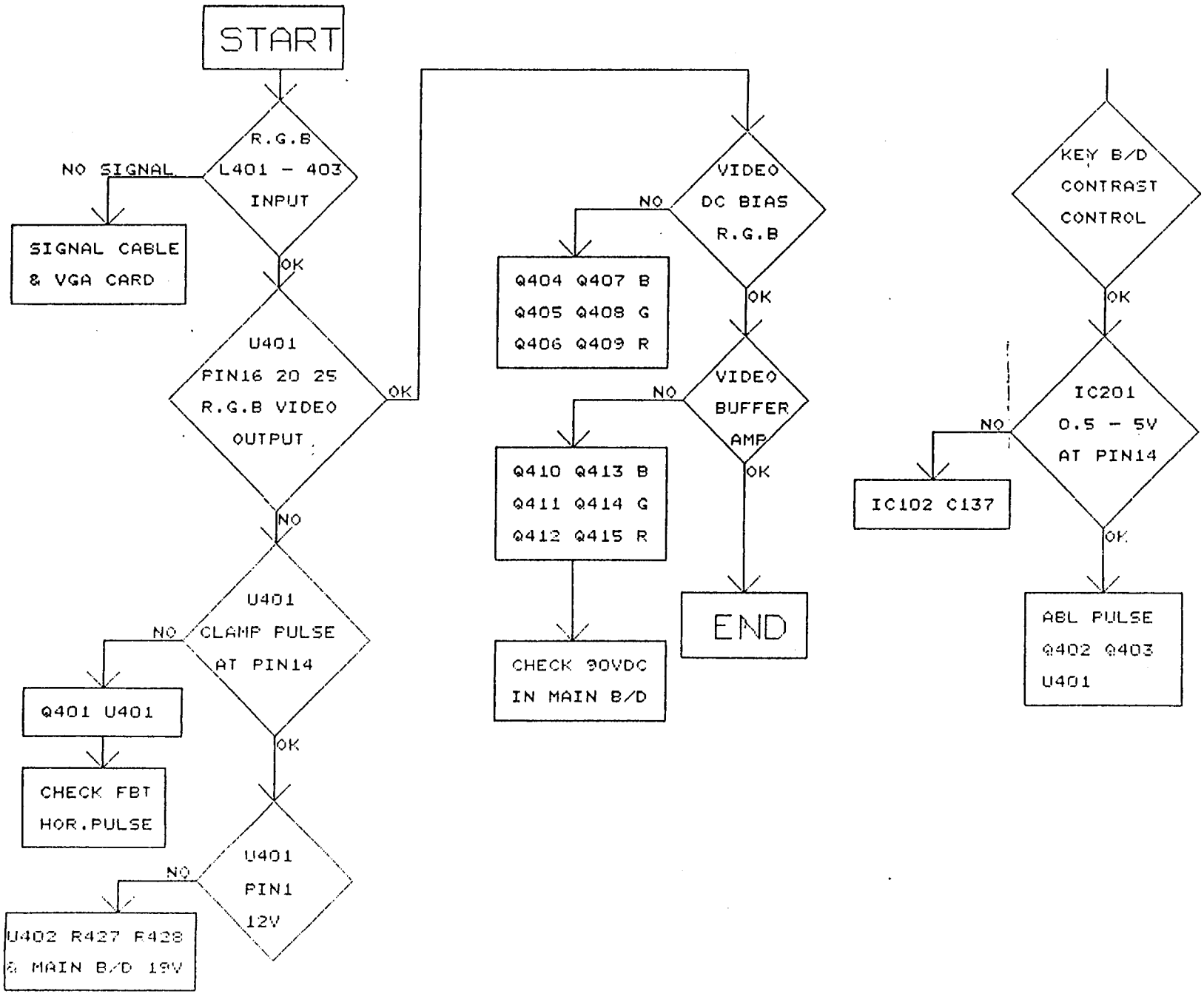
HORIZONTAL CIRCUIT TROUBLE SHOOTING FLOW CHART



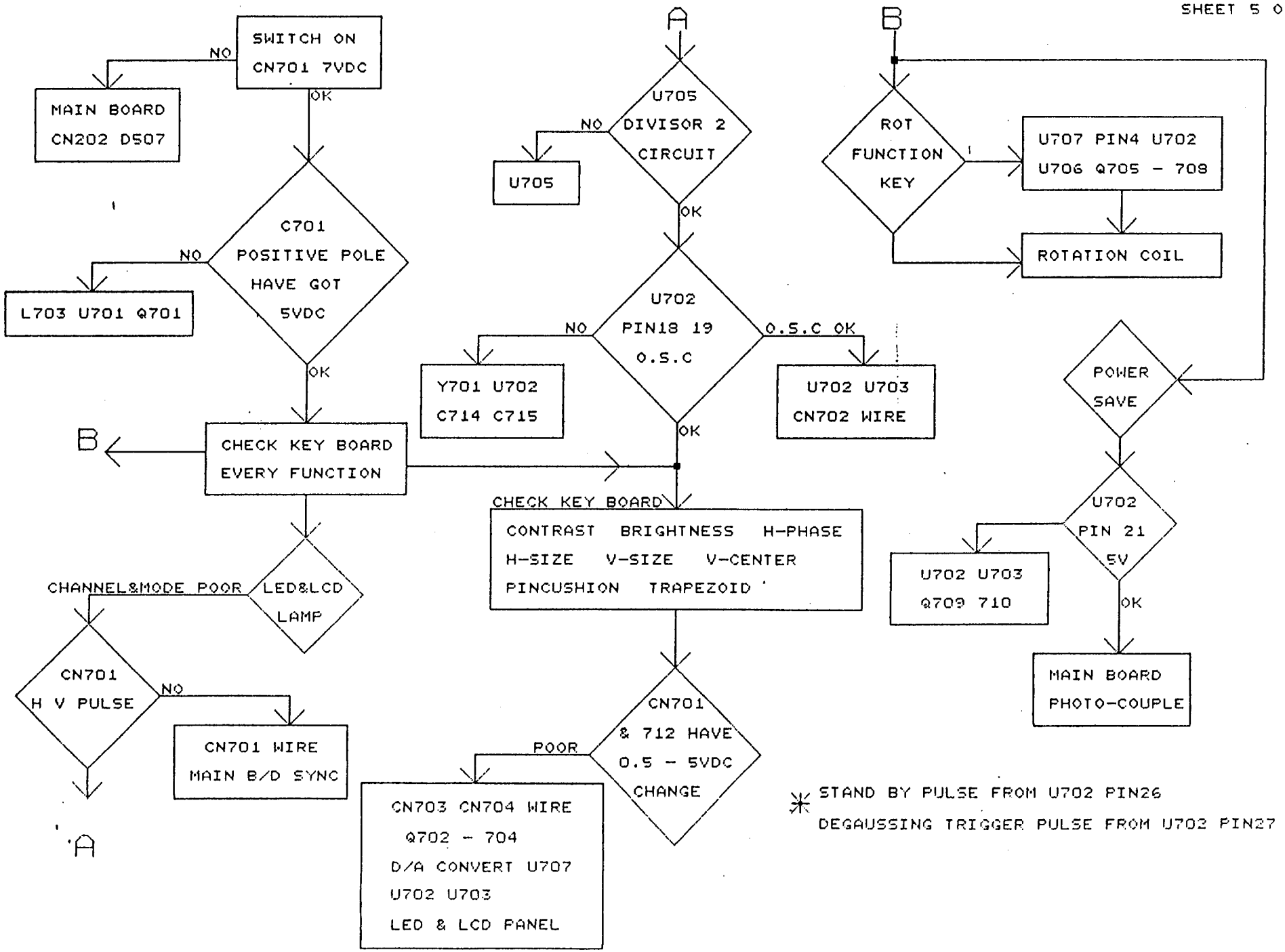
VERTICAL CIRCUIT TROUBLE SHOOTING FLOW CHART



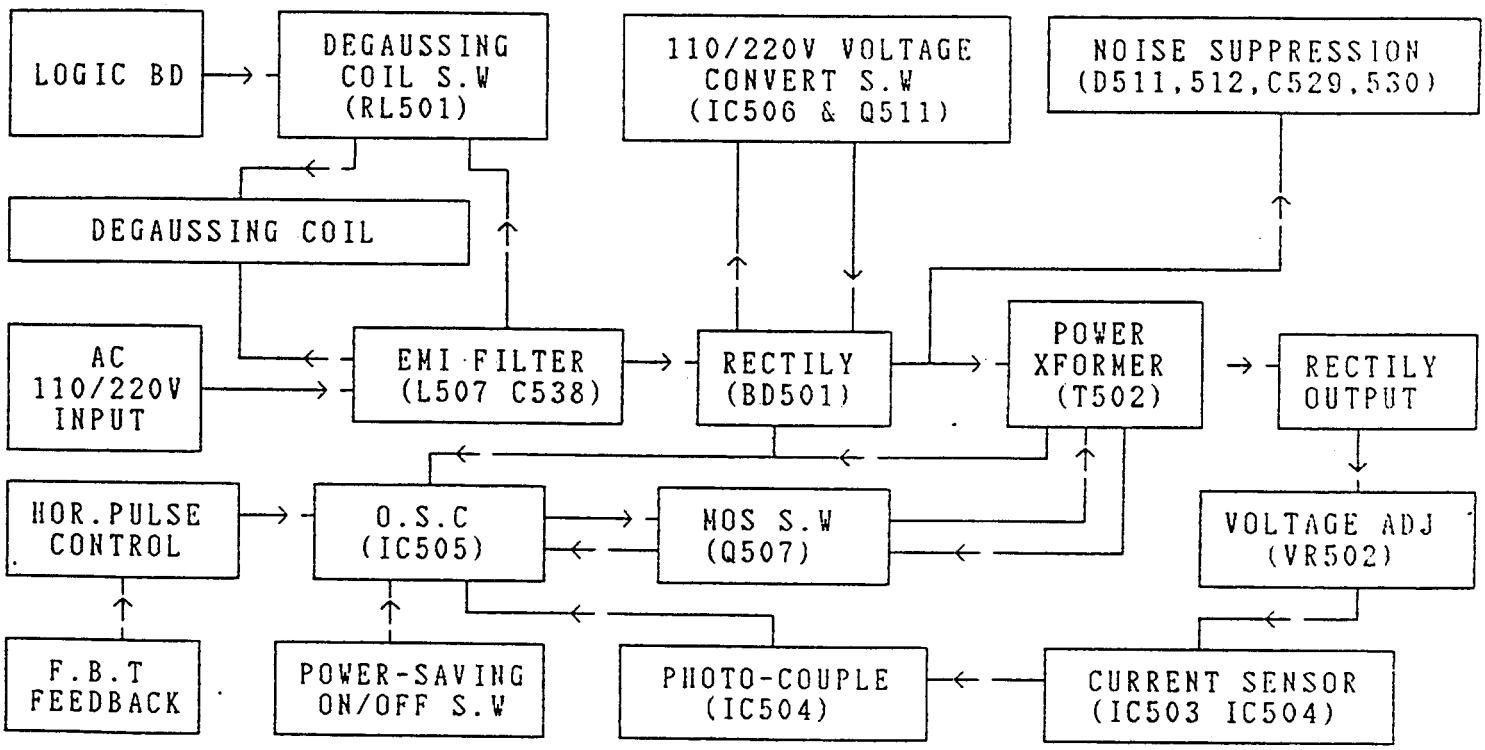
VIDEO CIRCUIT TROUBLE SHOOTING FLOW CHART



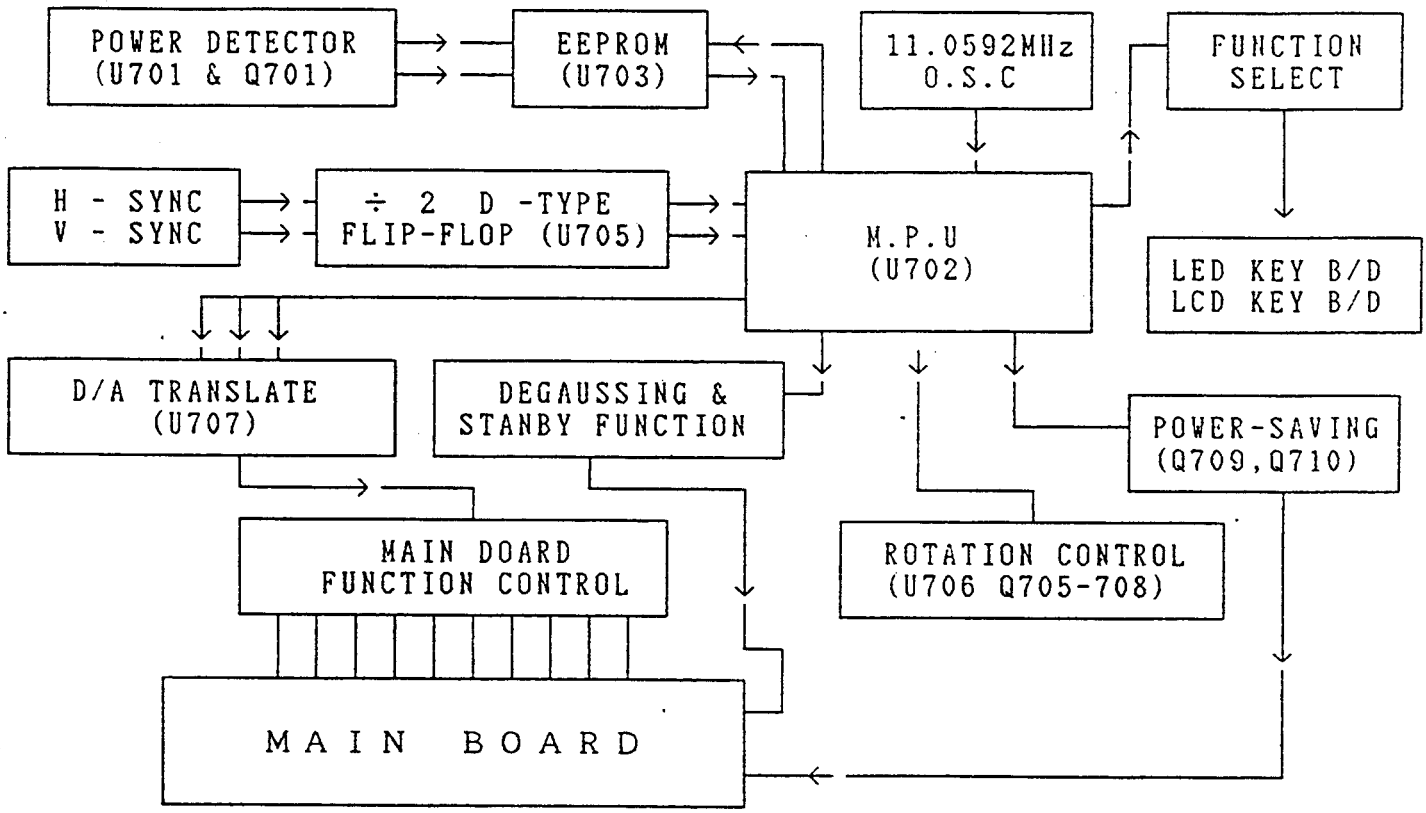
LOGIC BOARD & KEY BOARD TROUBLE SHOOTING FLOW CHART



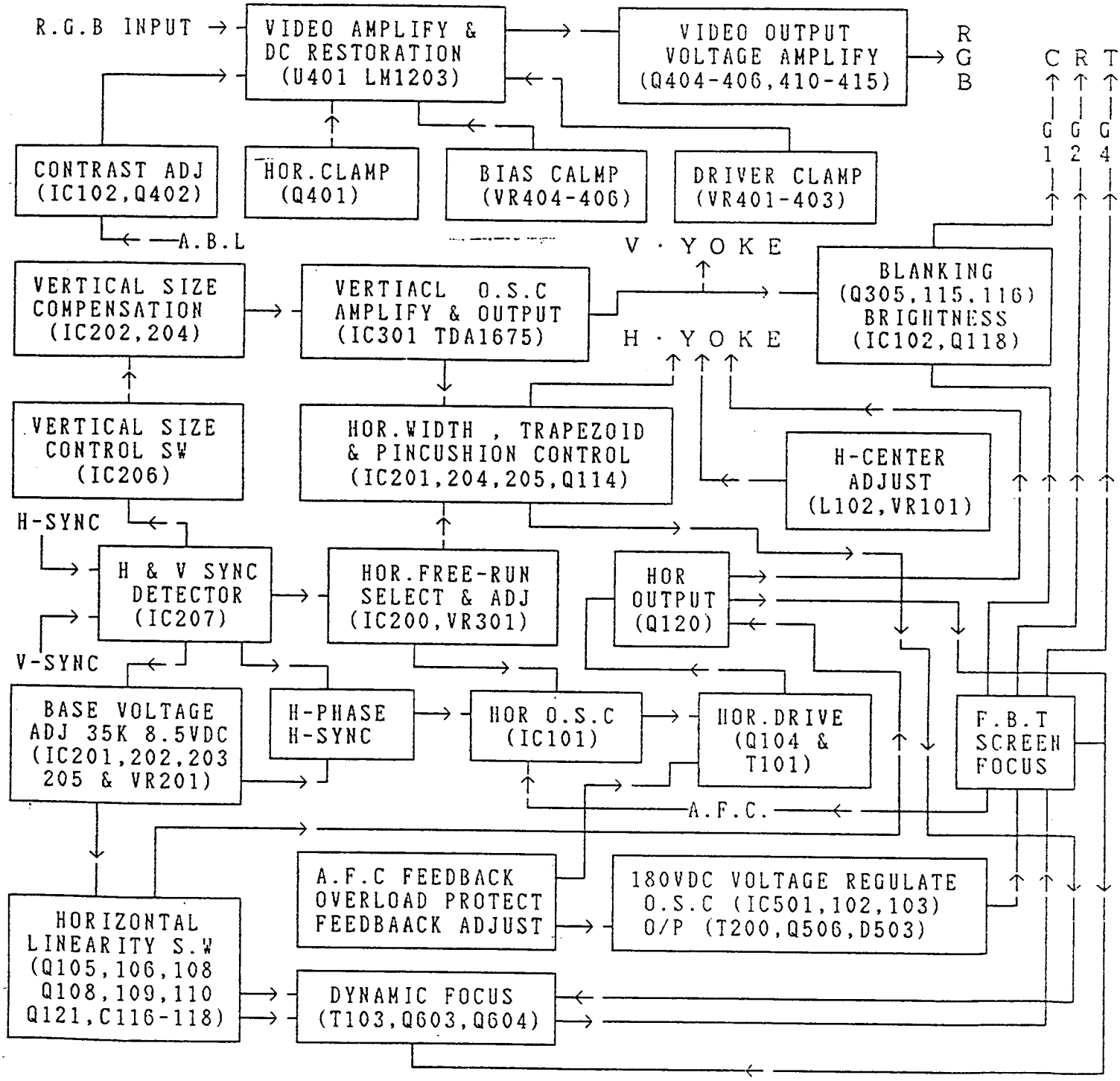
六・POWER SUPPLY DIAGRAM



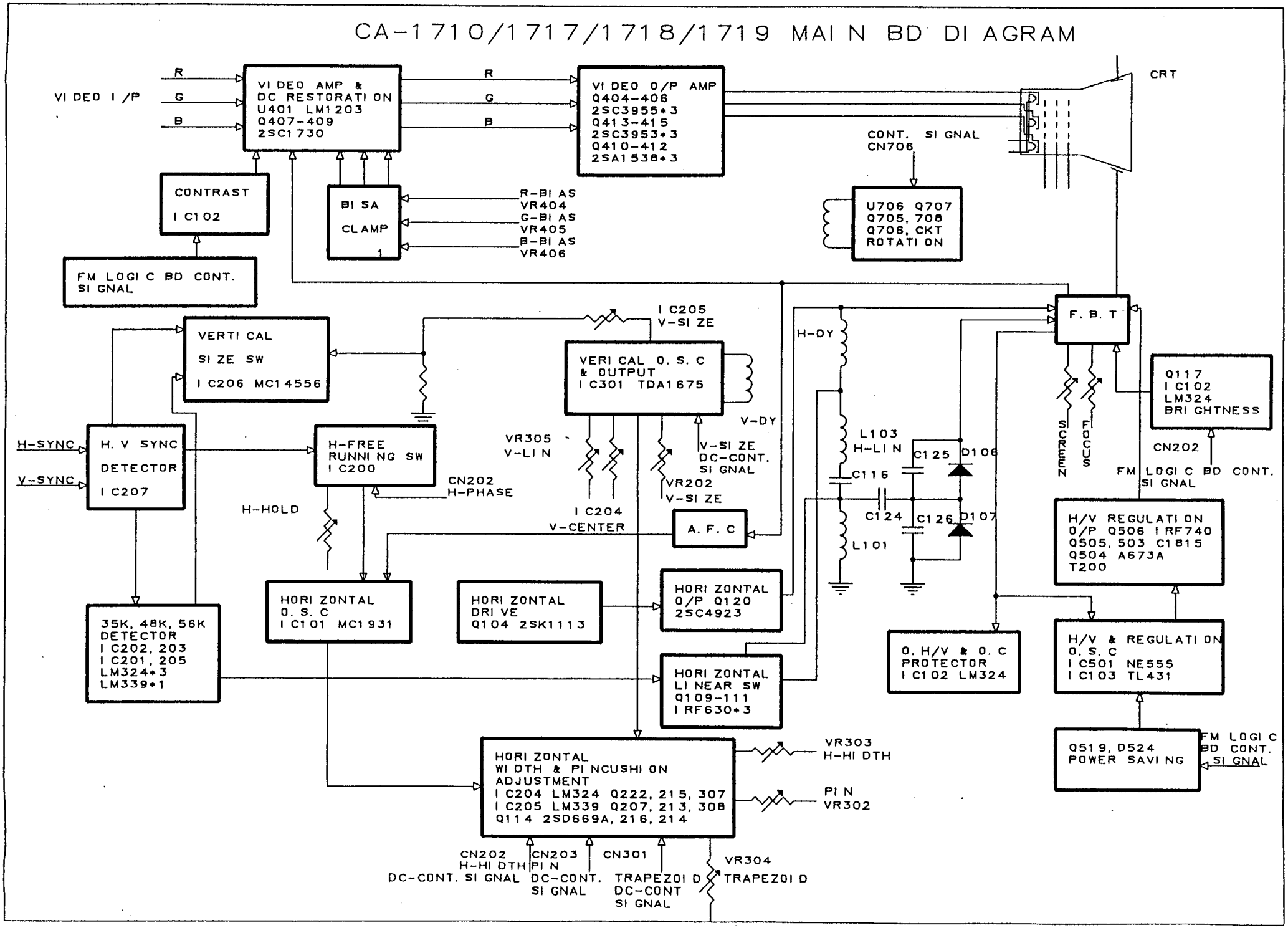
七. LOGIC BOARD DIAGRAM



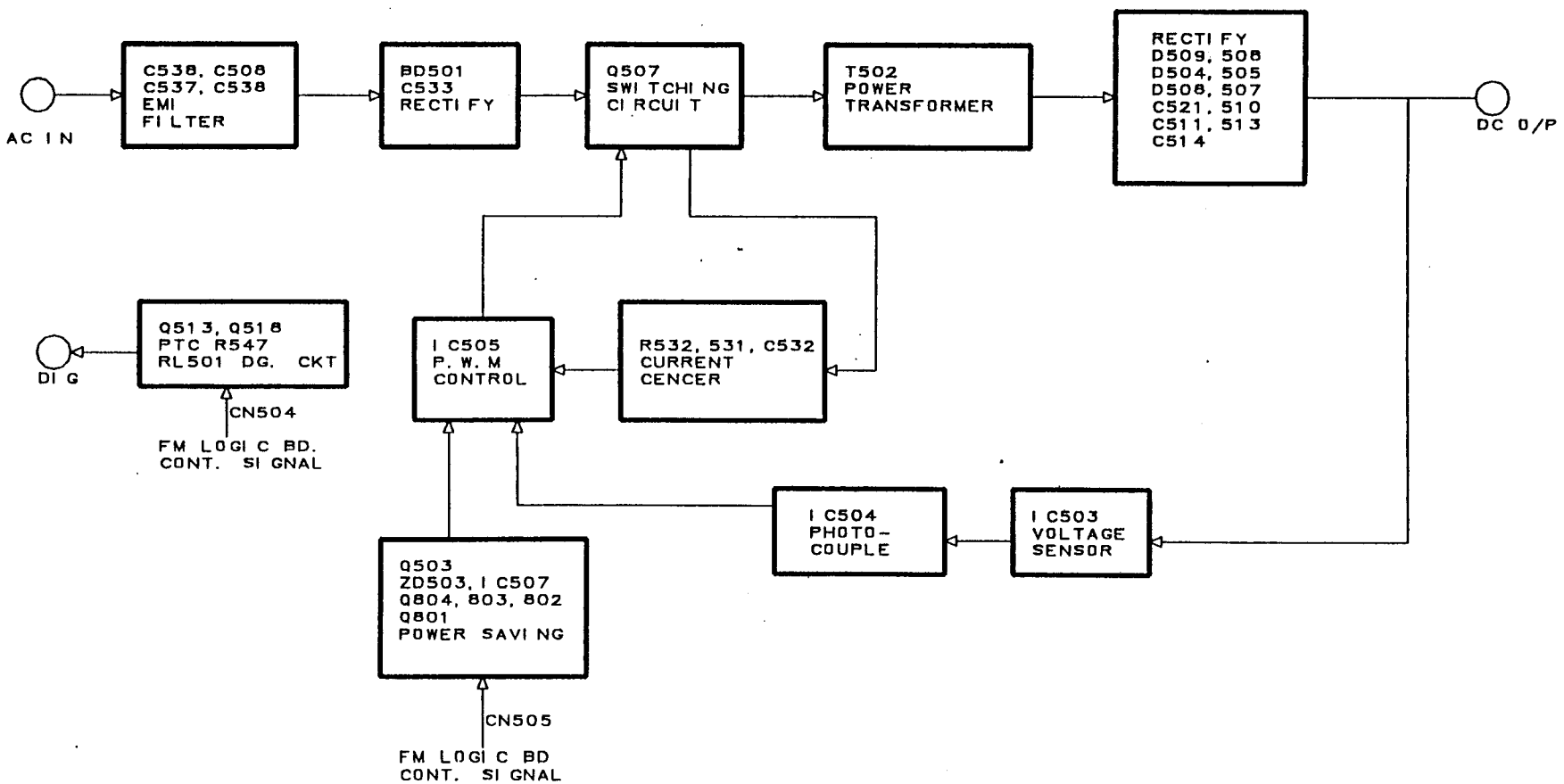
八・MAIN BOARD DIAGRAM



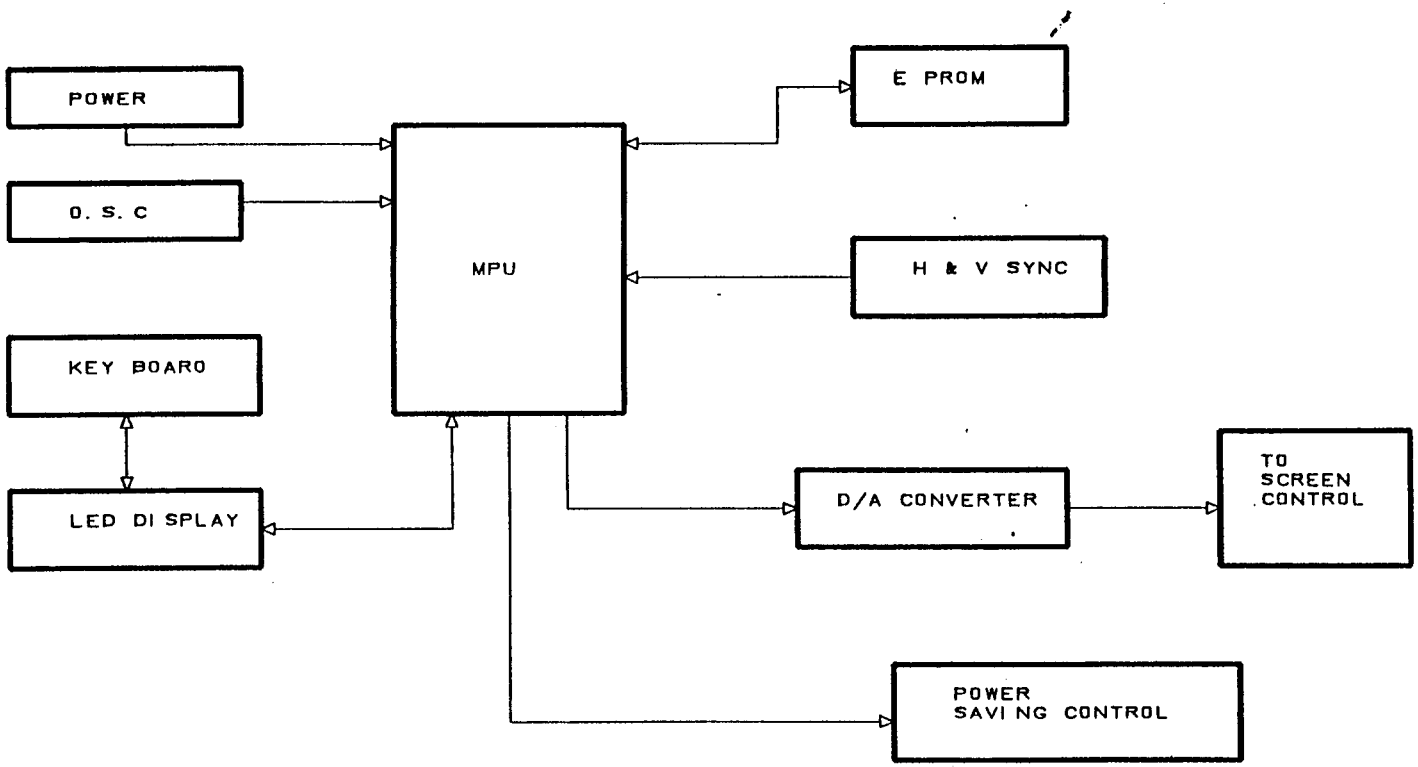
CA-1710/1717/1718/1719 MAIN BD DIAGRAM



CA-1710/17/18/19 POWER DIAGRAM



CA-1505/07, CA-1717/19(LED) LOGIC CONTROL BD DIAGRAM



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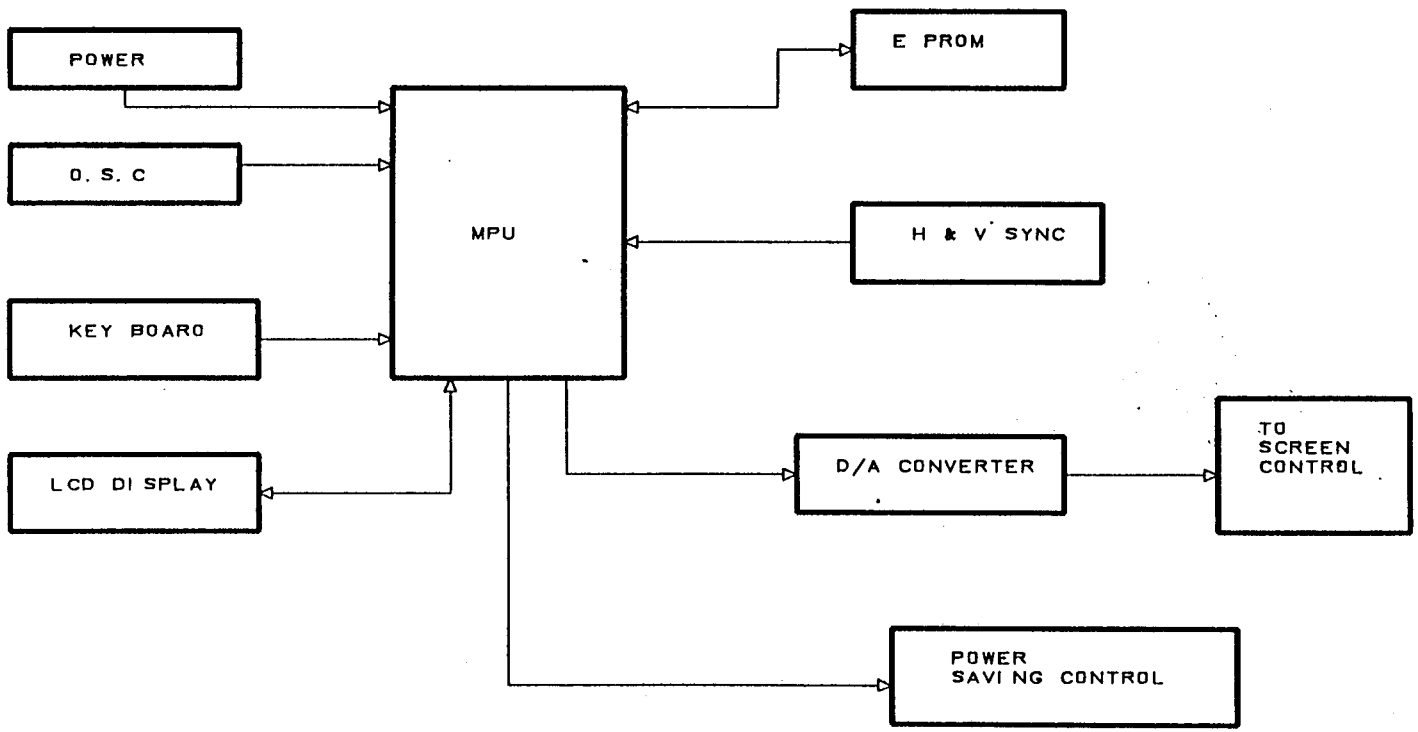
Date: August 27, 1993	Sheet of	

CA1506, CA-1508, CA-1710, CA1718(LCD) LOGIC CONTROL BD DIAGRAM



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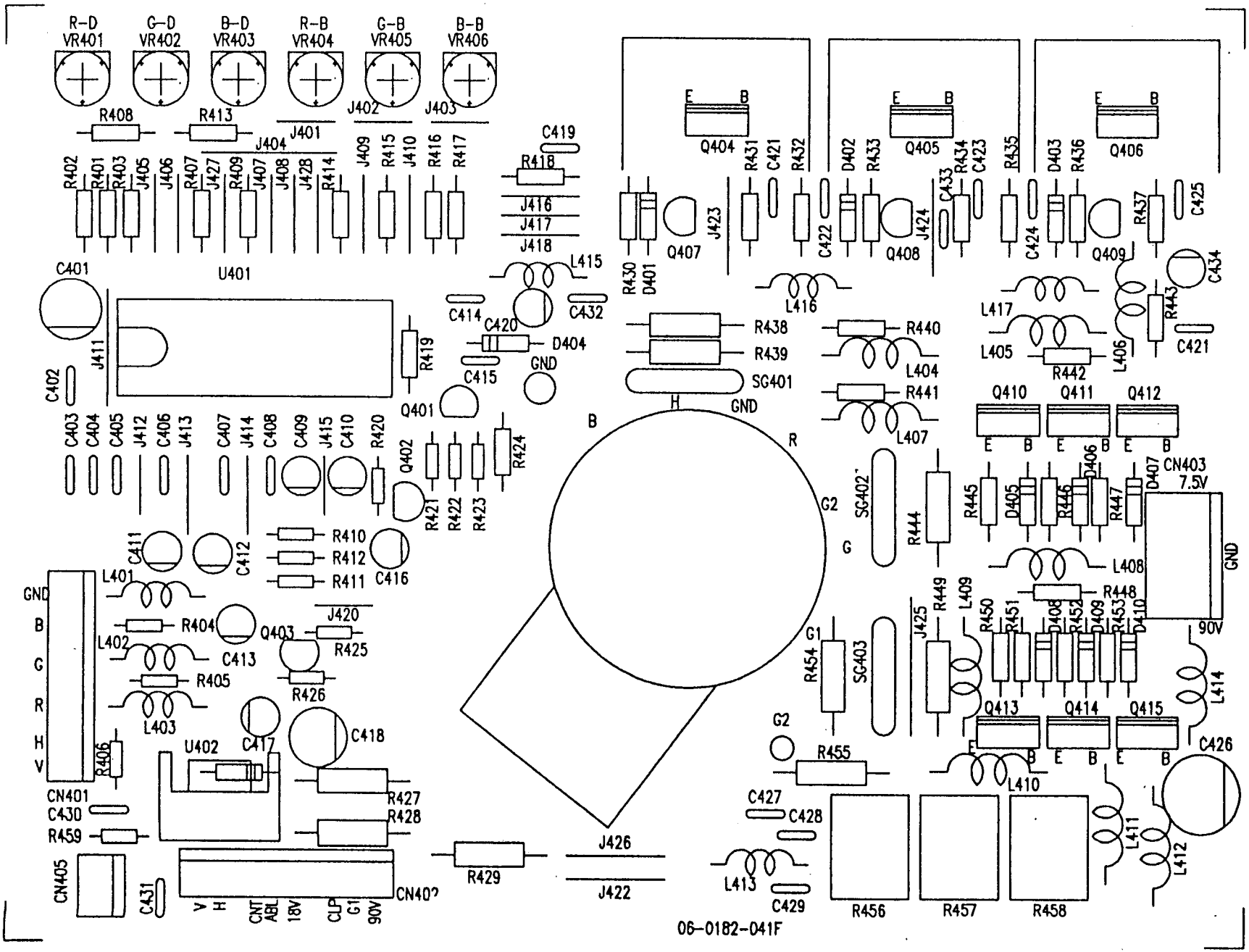
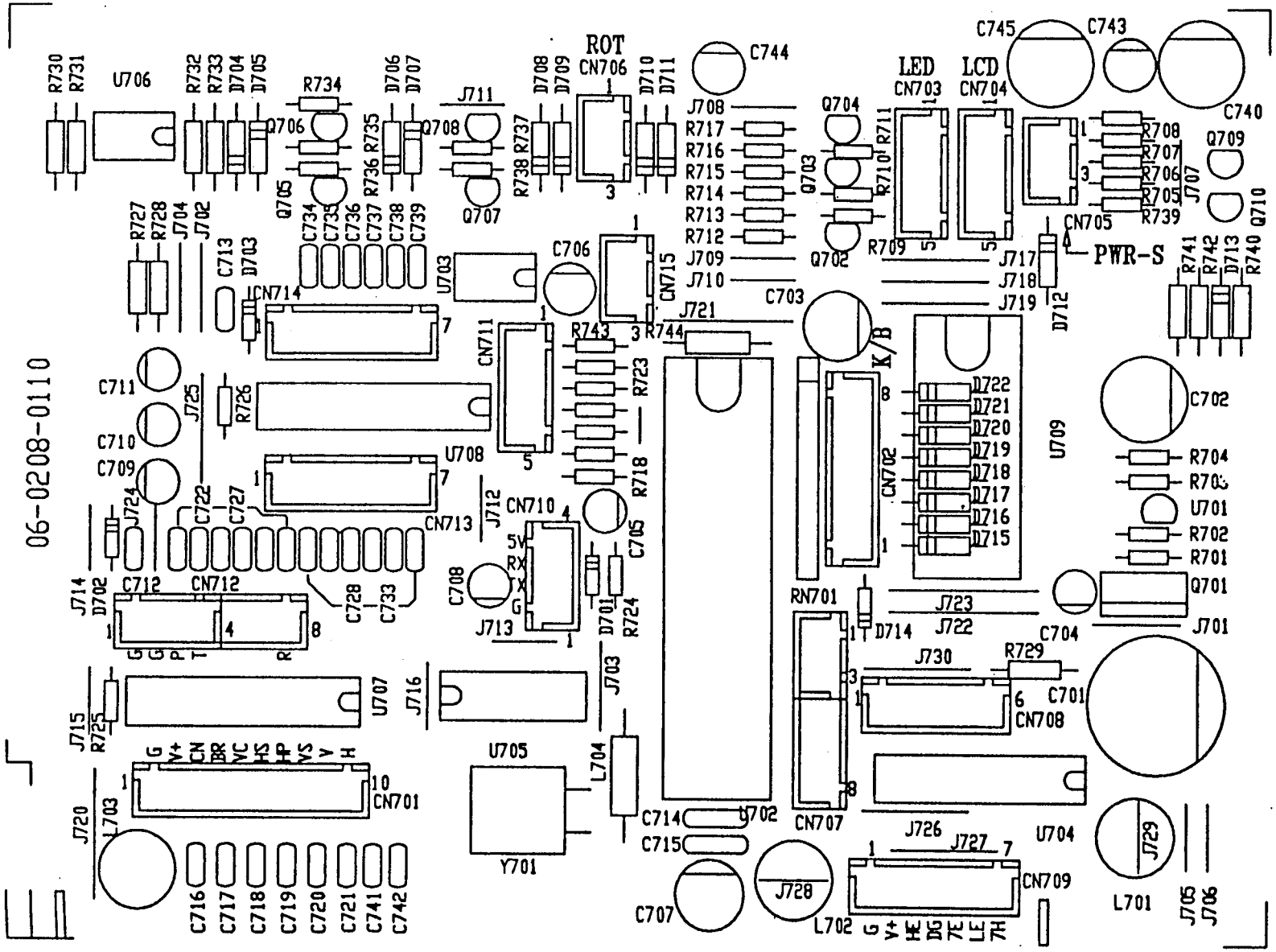
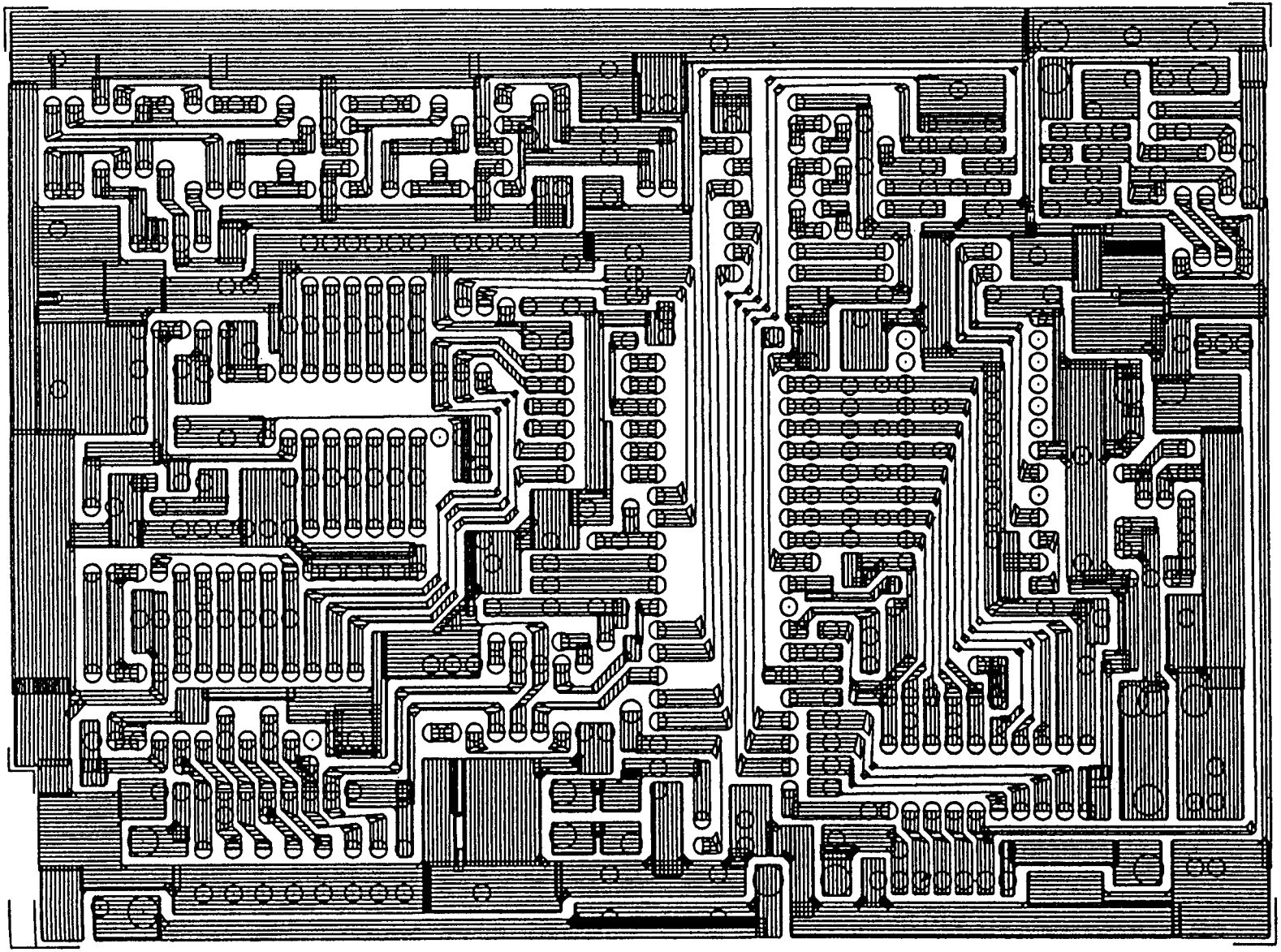
Date: August 27, 1993	Sheet of	

CA-1717.1718.1719.1710 CRT BD



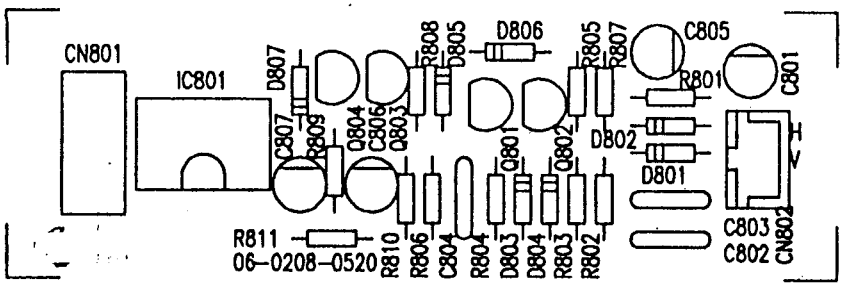
CA-1505.1506.1507.1508.1717.1718.1719.1710 L/G BD



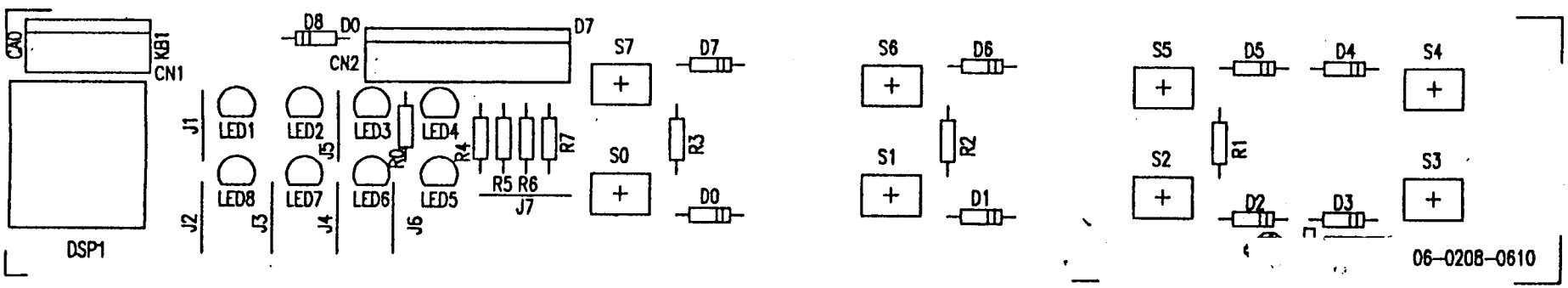


SM BD

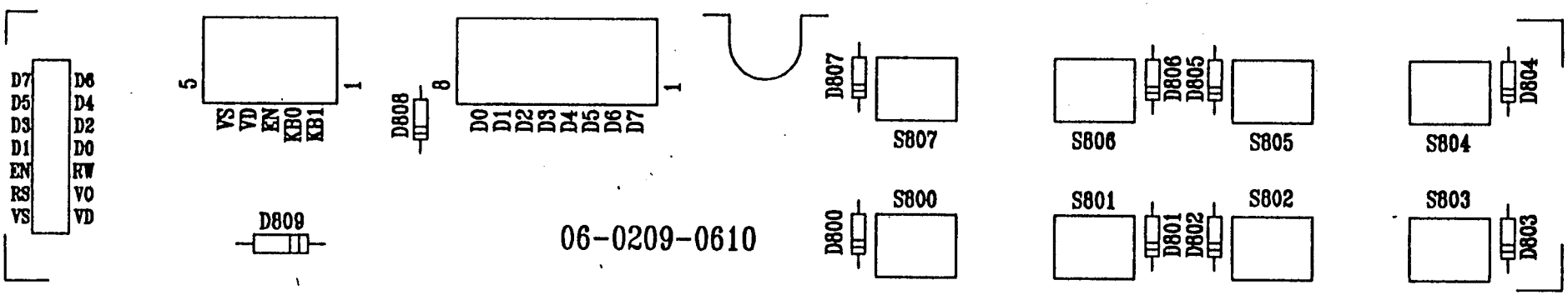
CA-1505.1506.1507.1508.1717.1718.1719.1710 K/B BD (LED) (LCD)



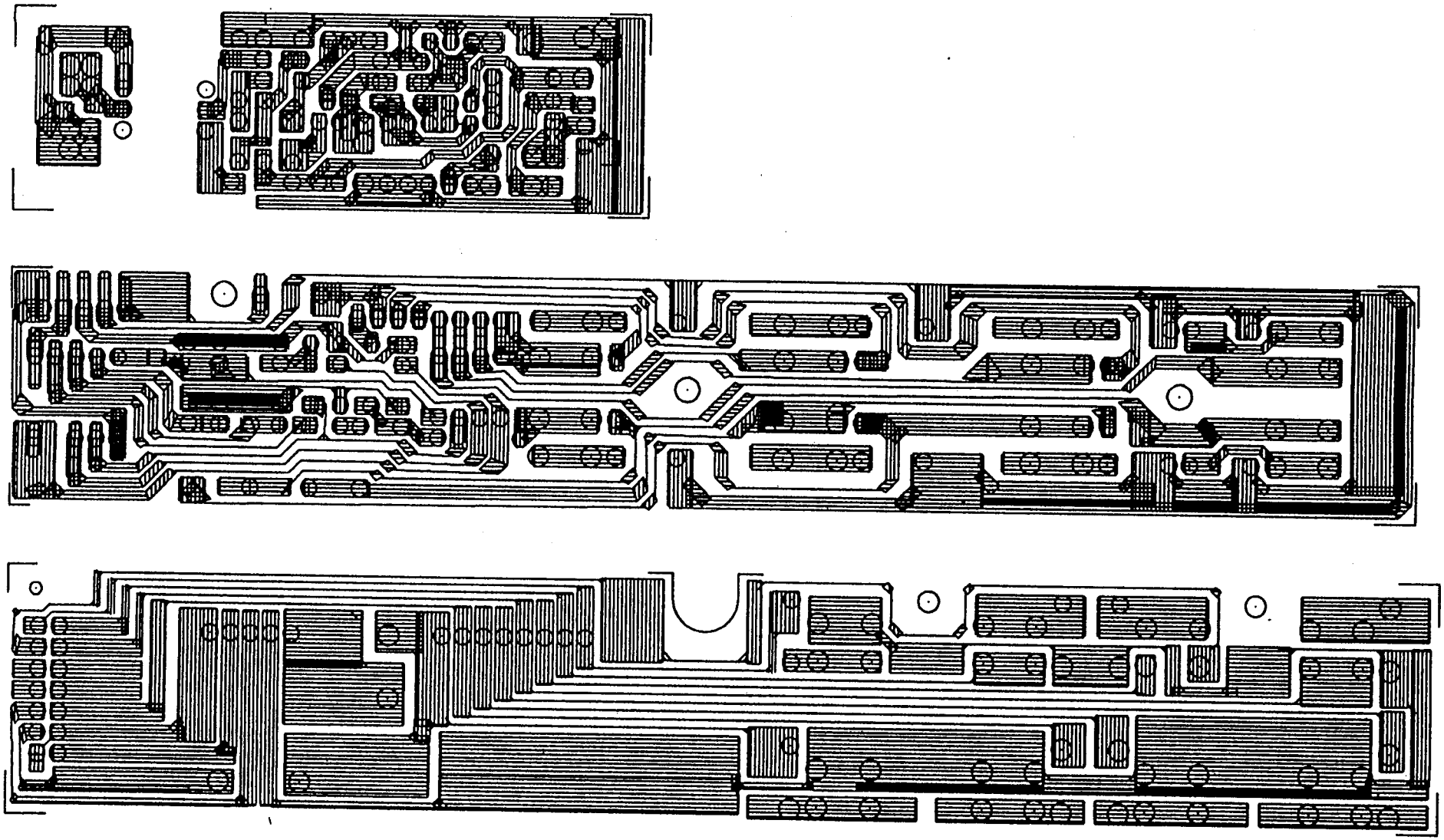
SM BD

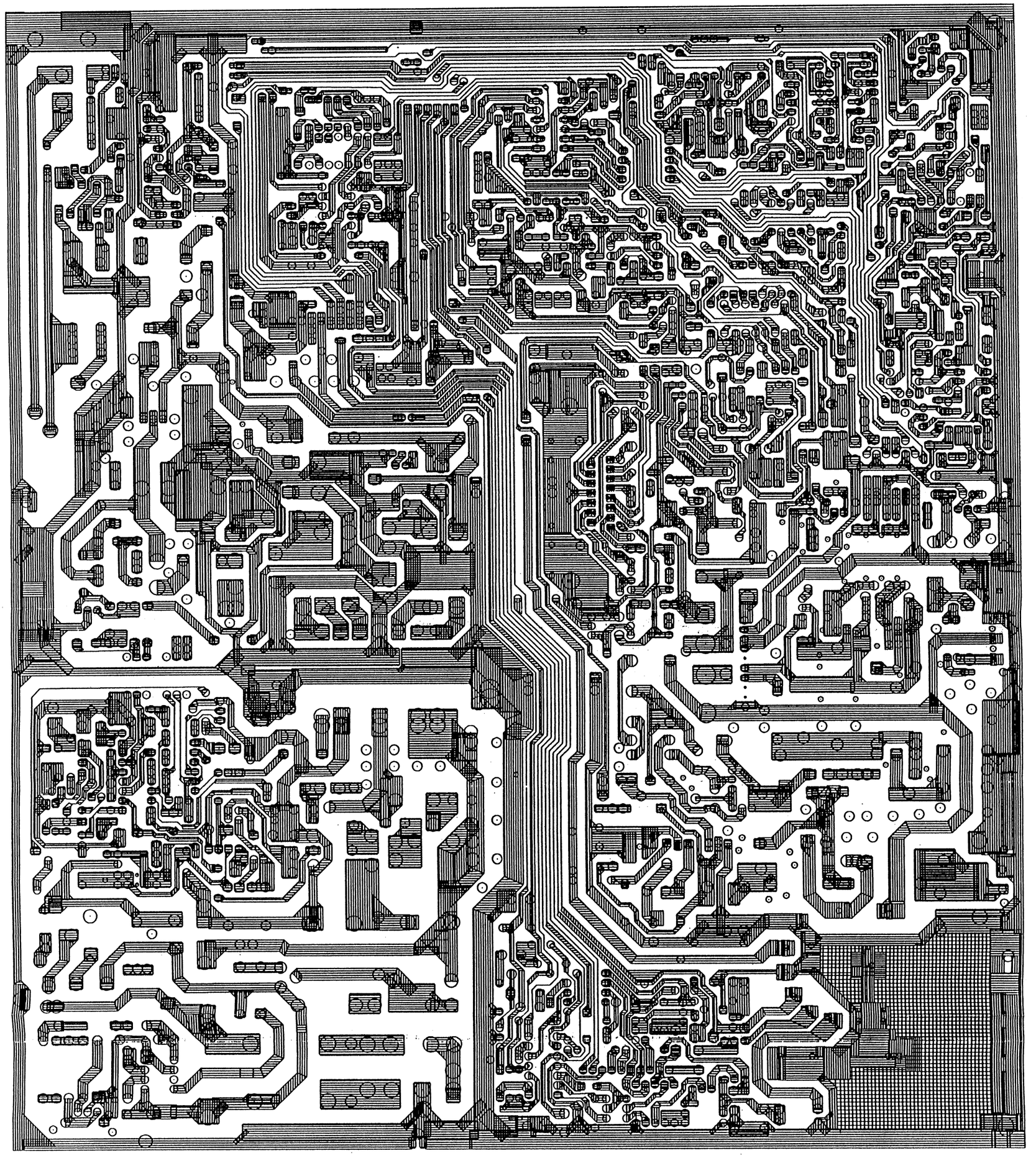


LED BD

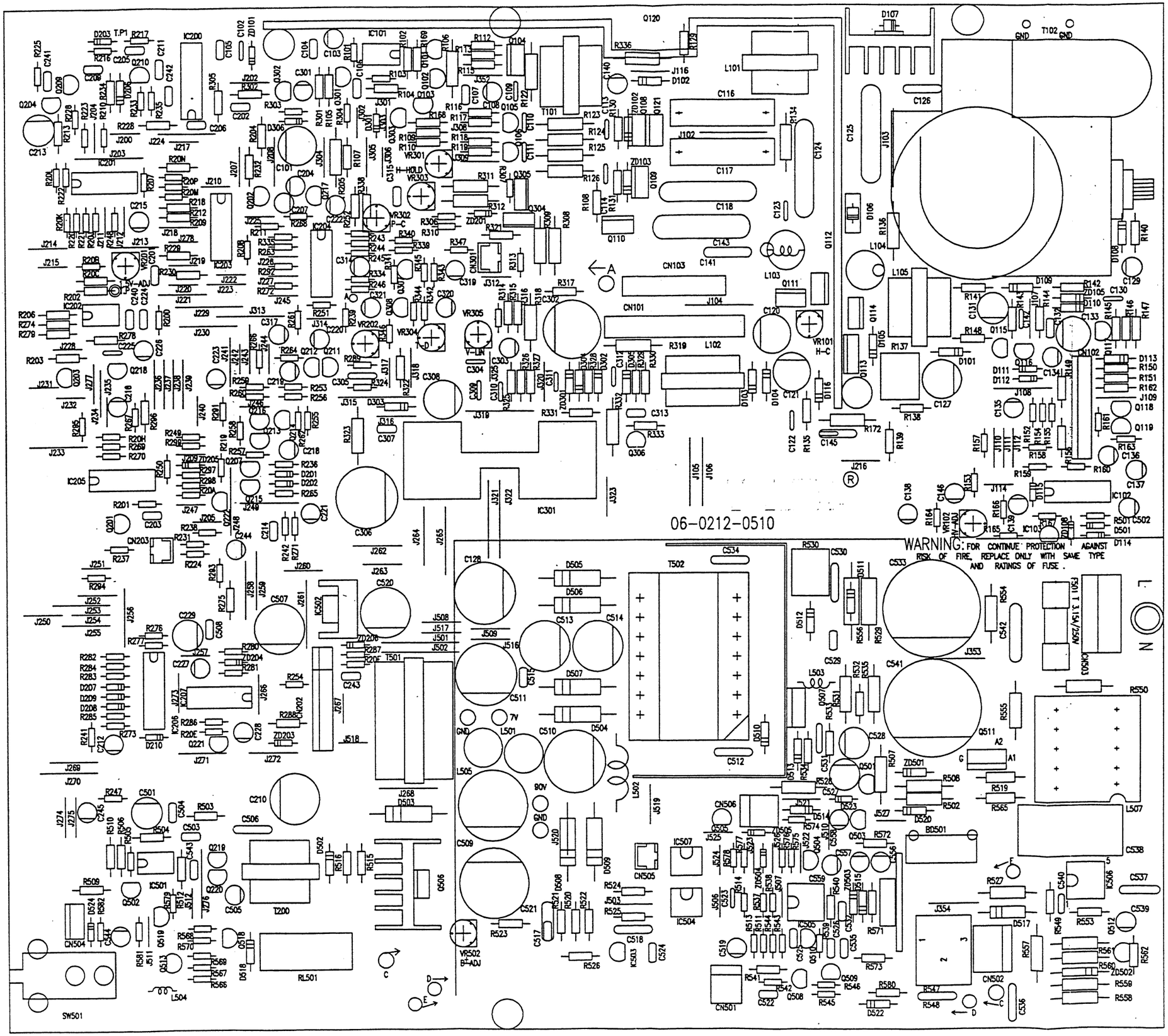


LCD BD





CA-1717.1718 MAIN BD



NOTE: CA-1505/1506/1507/1508/1520/1717[illegible]/1720 ONLY ECO-NO

U703 24C08 — C706 10u — R724 10K 1/8W — Q712 D467 — R710 4.7K 1/8W — D107 1N4148 — R723 10K 1/8W — R711 4.7K 1/8W — D714 3.9EB2 — C705 10u — RN701 8-4.7K — C703 100u 25V — C704 10u

CN711 (GND, DAT, CLK, CS2, CS3) 5P-H — R743 1.5K 1/8W

U702 83C154 — R744 1K 1/8W — R745 1K 1/8W — CN702 (D0–D7) 8P-H — CN707 (STDBY, DEG, GND) 3P-H — R729 1.5K 1/8W

R725 2.7K 1/8W — C710 10u — C708 10u — C727 .1u CD — D702 1N4148

CN715 (SCL, SDA, GND) 3P-H

U707 M62358P — CN701 10P-H — L701 50uH — C716 .1u — C717 .1u — C718 .1u — C719 .1u — C720 .1u — C721 .1u — C741 .01u — C74210 1000P — R721 — R722

CN712 5P-H — C722 .1u CD — C723 .1u CD

U705 74HC74

L702 — Y701 11.0592 — C715 22P CD — C714 22P CD

Q702 B561 — Q703 B561 — Q704 B561 — R712 1K 1/8W — R713 4.7K 1/8W — R714 1K 1/8W — R715 4.7K 1/8W — R716 1K 1/8W — R717 4.7K 1/8W

CN703 (CA0, CA1, CA2, KB0, KB1) 5P-H — CN704 (VSS, VDD, EN, KB0, KB1) 5P-H

Q701 B824 — C707 100u 25V — C701 2200u 16V — R720 1K 1/8W — R701 1K 1/8W — R702 100 1/2W — R718 4.7K 1/8W — U701 TL431 — R704 1.5K 1/8W — C702 1000u 10V — D702 FR102 — Q711 D467 — R719 1K 1/8W — R709 47K 1/8W — R703 1.5K 1/8W

C709 10u — U706A 8 LM358 — R732 100 1/8W — C711 10u — R738 1K 1/8W — R736 1K 1/8W — Q707 D467 — Q705 D467 — D709 1N4148 — D708 1N4148 — R734 100 1/8W — D707 1N4148 — D705 1N4148 — D710 1N4148 — CN706 (R-3, R-2, R-1) 3P-H — D706 1N4148 — D704 1N4148 — Q708 B561 — Q706 B561 — D711 1N4148 — R737 1K 1/8W — R735 1K 1/8W — R731 100K 1/8W — R730 100K 1/8W — U706B LM358 — R733 100 1/8W — R728 10K 1/8W — R727 8.2K 1/8W

CN705 (ON, +5V, OFF) 3P-H — C740 1000u 10V — R742 4.7K 1/8W

R707 680 1/8W — R706 47K 1/8W — R705 330 1/8W — R739 47K 1/8W — R740 4.7K 1/8W — Q709 D467 — D713 1N4148 — R708 47K 1/8W — C712 10u — Q710 D467 — R741 10K 1/8W

R/D 絕機密 (E.C.)

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KUO FENG CORPORATION			
APP: 經理 83.10.5 葉榮泰	CHK: R/D 83.10.5 陳世昌	DWG: R/D 魏華金	MODEL: CA-1520
Title: LOGIC BD CIRCUIT DRAWING			
Size: B	Document Number		REV: OR
Date: March 4, 1994	Sheet 1 of 1		

NOTE: CA-1717 ONLY

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OCT-5.1994
R&D
673 KUANG FU ROAD PA-TE
TAOYUAN HSIEN TAIWAN

KUO FENG CORPORATION
MODEL: CA-1717
MAIN/POWER/CPT BD CIRCUIT DIAGRAM
Document Number

經理 88.10.5 蔡榮泰
R/D 88.10.5 吳上隊
R/D 盛華金